

Title (en)

GAS SAMPLING DEVICE WITH IMPROVED MIXED FLOW FAN

Publication

**EP 0468030 A4 19920715 (EN)**

Application

**EP 91904258 A 19910130**

Priority

- US 47723390 A 19900208
- US 9100583 W 19910130

Abstract (en)

[origin: US5018395A] A gas sampling device including a chamber assembly formed of a chamber base having a chamber top mounted thereto is disclosed. A gas sensor is mounted to the chamber base in fluid communication with a gas flow passage therethrough. A motor is mounted to the lower surface of the chamber base and has a shaft extending through the chamber base. A fan is mounted onto the motor shaft within the chamber housing. An inlet flow passage extends through the chamber top above the center of the fan and an outlet flow passage extends through the chamber top above the gas flow passage. The fan and the chamber top are provided with a particular configuration to provide for efficient and smooth flows of gas through the housing and to the sensor.

IPC 1-7

**G01N 1/24**

IPC 8 full level

**G01N 1/22** (2006.01); **F04D 17/16** (2006.01); **G01N 1/24** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP KR US)

**F04D 17/16** (2013.01 - EP US); **G01N 1/2273** (2013.01 - EP US); **G01N 1/24** (2013.01 - KR); **G01N 33/0009** (2013.01 - EP US); **G01N 1/24** (2013.01 - EP US); **G01N 2001/2276** (2013.01 - EP US); **G01N 2001/245** (2013.01 - EP US)

Citation (search report)

- [A] US 3131236 A 19640428 - BEEHLER RICHARD F, et al
- [A] EP 0042800 A1 19811230 - UNION DE SYNDICATS UNION TECH [FR]
- [A] FR 717272 A 19320106
- [A] EP 0157229 A1 19851009 - BIOTEST SERUM INSTITUT GMBH [DE]
- [A] HEATING AND VENTILATING vol. 45, no. 9, September 1948, pages 68 - 80; F.P.BLEIER: 'design,performance and selection of centrifugal fans'
- See references of WO 9112512A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 5018395 A 19910528**; AT E147507 T1 19970115; AU 632668 B2 19930107; AU 7252991 A 19910903; CA 2050685 A1 19910809; CA 2050685 C 19940628; DE 69124021 D1 19970220; DE 69124021 T2 19970417; EP 0468030 A1 19920129; EP 0468030 A4 19920715; EP 0468030 B1 19970108; JP H04506261 A 19921029; JP H0769252 B2 19950726; KR 920701807 A 19920812; KR 960003192 B1 19960306; WO 9112512 A1 19910822

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